Hydro-Jet Services, Inc.
P. O. Box 808
Amarillo, Texas 79105

of operating license

Supplemental Sheet for Form AEC-2 - Source Material Mining and Milling Operation

ITEM 6.

All liquid and solid wastes will be contained inside the embankment retention system as shown in plan view on the enclosed Plot Plan of the Mining Site (Print No. ULF-7-B) and in cross section view on the enclosed Geological Cross-Section Diagram (Print No. ULF-7-B-1). The embankment retention system will be used to allow the subsequent reprocessing for Vanadium and the reclamation of the liquids for reuse in the ore processing. The average above-grade height will be 22 feet with a top width of 24 feet with 3:1 side slopes. A minimum of 3 feet of freeboard will be maintained at all times. Seepage control will be effected by using the clean Summerville shale for the embankment construction material, and the entire reservoir floor. The foundation of the embankment was prepared by dozing the area clear of debris and waste rock down to the solid shale which has an estimated safe bearing capacity of 10 tons per square foot and an estimated permeability of less than 0.01 millidarcy. Construction material for the embankment is Summerville shale borrowed brom the area inside the reservoir and is free of sod, roots, and stones over six inches in diameter. The embankment was carried up in horizontal layers not exceeding six inches in thickness. Each layer was compacted to approximately 90 percent of maximum density with a sheepsfoot roller with a unit pressure of not less than 200 pounds per square inch of the total surface area of the feet simultaneously in contact with the embankment. All embankment surfaces will be seeded with African lovegrass or equivalent as weather conditions permit. The distance between the embankment and the nearest flood level point on the dry creek is slightly less than 200 feet but percolation will not be a factor at this location. Large quantities of waste rock along the bases of the escarpment will be dozed into a dike just outside the enclosure fence forming an effective protective barrier against any unprecedented high flood levels.

ITEM 7.

All liquid and solid wastes will be contained inside the embankment retention system with the liquids being reclaimed for reuse in the ore processing. Radiation surveys will be made using portable geiger counters along the bases of all leaching tanks, the processing tanks, the processing area enclosure dike, and the tailings reservoir embankment every six months. Water samples from the mill supply wells, the radiation survey wells, and liquid waste samples from the embankment retention system will be analyzed for natural uranium, radium 226, and thorium 230 on a quarterly basis.

riprap cover

total toe - toe width should = 156'
slopes 3:1 = 18.4°
$k \leq 1 \times 10^{-5}$ cm/sec
6" lifts
compacted w/ sheepsfoot to 90%